

03050106-040

(Sandy River)

General Description

Watershed 03050106-040 is located in Chester County and consists primarily of the *Sandy River* and its tributaries. The watershed occupies 102,351 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Wilkes-Madison series. The erodibility of the soil (K) averages 0.26, and the slope of the terrain averages 14%, with a range of 2-40%. Land use/land cover in the watershed includes: 3.41% urban land, 9.12% agricultural land, 3.28% scrub/shrub land, 0.22% barren land, 83.58% forested land, and 0.40% water.

The Sandy River accepts drainage from Chapel Branch and flows through Chester Reservoir (80 acres) near the City of Chester. Downstream from the reservoir, Dry Fork enters the river followed by Caney Fork Creek (Chester State Park Lake, Twomile Branch, Threemile Branch), Carter Branch, Bear Branch (Mountain Lakes), and Seely Creek (Julies Fork, Walkers Mill Branch, Rock Branch, Bond Branch, Long Branch, Gum Spring Branch). Further downstream, the river accepts drainage from Rocky Branch, Brushy Fork Creek (Smith Creek, Starne Branch), the Little Sandy River (Mobley Creek, Coon Creek), and Johns Creek. Chester State Park is located in this watershed and extends over Twomile Branch and Threemile Branch near the City of Chester. There are several ponds and lakes (10-138 acres) in this watershed and a total of 156.2 stream miles, all classified FW. The lower tip of the watershed resides within the Sumter National Forest.

Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CL-023	W	FW	CHESTER STATE PARK LAKE, 100 M E OF SPILLWAY
B-074	S	FW	DRY FORK AT S-12-304, 2 MI SW OF CHESTER
B-075	S/BIO	FW	SANDY RIVER AT SC 215, 2.5 MI ABOVE CONFLUENCE WITH BROAD RIVER

Sandy River (B-075) - Aquatic life uses are fully supported based on macroinvertebrate community data and physical/chemical data. There is a significant decreasing trend in pH. Recreational uses are not supported due to fecal coliform bacteria excursions.

Chester State Park Lake (CL-023) - Chester State Park Lake is a 138-acre impoundment on Twomile Branch and Threemile Branch located within Chester State Park in Chester County. The maximum depth is approximately 17 feet (5.2 m) and the average depth is 8.9 feet (2.7 m). The lake's watershed comprises approximately 9.2 square miles (23.8 km²). Aquatic life and recreational uses are fully supported.

Dry Fork (B-074) - Aquatic life uses are fully supported. There is a significant decreasing trend in pH. In sediment, a very high concentration of chromium and a high concentration of nickel were measured in the 1995 sample; high concentrations of chromium were measured in the 1996, 1997, and 1999 samples; and very high concentrations of cadmium, chromium, and zinc, and high concentrations of copper and

nickel were measured in the 1998 sample. Recreational uses are not supported due to fecal coliform bacteria excursions.

NPDES Program

Active NPDES Facilities

<i>RECEIVING STREAM FACILITY NAME PERMITTED FLOW @ PIPE (MGD) COMMENT</i>	<i>NPDES# TYPE LIMITATION</i>
SANDY RIVER CITY OF CHESTER/SANDY RIVER WWTP PIPE #: 001 FLOW: 2.133 WQL FOR BOD5,DO,TRC,NH3N	SC0036081 MAJOR DOMESTIC WATER QUALITY

Nonpoint Source Management Program

Camp Facilities

<i>FACILITY NAME/TYPE RECEIVING STREAM</i>	<i>PERMIT # STATUS</i>
CHESTER STATE PARK/FAMILY CHESTER STATE PARK LAKE	12-307-0001 ACTIVE
B&S FAMILY CAMPGROUND/FAMILY SEELY CREEK	12-307-0007 ACTIVE

Land Disposal Activities

Landfill Activities

<i>SOLID WASTE LANDFILL NAME FACILITY TYPE</i>	<i>PERMIT # STATUS</i>
CITY OF CHESTER SANITARY LANDFILL DOMESTIC	DWP-069 (SCD002394070) CLOSED

Land Application Sites

<i>LAND APPLICATION SYSTEM FACILITY NAME</i>	<i>ND# TYPE</i>
PERCOLATION LAGOON HILLTOP MOBILE HOME PARK	ND0080535 DOMESTIC

Mining Activities

<i>MINING COMPANY MINE NAME</i>	<i>PERMIT # MINERAL</i>
CHESTER COUNTY CHESTER COUNTY GRAVEL PIT	1128-23 GRAVEL

Growth Potential

There is a low to moderate potential for growth in this watershed, which contains the City of Chester and a portion of the Town of Lowrys. Water and sewer services are provided in and around Chester and will promote modest residential, commercial, and industrial growth. The majority of the watershed is rural in nature with a high degree of forestry activities. The Sumter National Forest effectively excludes the western edges of the watershed from development.